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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,655	03/17/2004	Takao Inoue	50024-025	1697
	7590 10/02/2007 WILL & EMERY	EXAM	EXAMINER	
600 13th Street, N.W.			WILLS, MONIQUE M	
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER
			1745	
			MAIL DATE	DELIVERY MODE
			10/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/801,655	INOUE ET AL.			
Office Action Summary		Examiner	Art Unit			
	_	Monique M. Wills				
The	MAILING DATE of this communication app		1745			
Period for Rep	oly		with the conceptionalities address			
VVHICHEVE - Extensions of after SIX (6) If NO period If Failure to rep Any reply rec	ENED STATUTORY PERIOD FOR REPLY ER IS LONGER, FROM THE MAILING DATA IT IS LONGER, FROM THE MAILING DATA IT IS A CARE IN THE MAILING THE	ATE OF THIS COMMU  16(a). In no event, however, ma  rill apply and will expire SIX (6) It  cause the application to become	NICATION.  y a reply be timely filed  MONTHS from the mailing date of this communication.			
Status						
1) Resp	onsive to communication(s) filed on 23 Ju	ly 2007.				
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
close	d in accordance with the practice under E.	x parte Quayle, 1935 (	C.D. 11, 453 O.G. 213.			
Disposition of	Claims					
4a) O 5)	n(s) 1-12 is/are pending in the application.  If the above claim(s) 13-16 is/are withdraw  In(s) is/are allowed.  In(s) 1-12 is/are rejected.  In(s) is/are objected to.  In(s) are subject to restriction and/or					
Application Pa	pers					
10)⊠ The d Applic Repla	pecification is objected to by the Examiner rawing(s) filed on <u>17 March 2004</u> is/are: a sant may not request that any objection to the ocement drawing sheet(s) including the correction or declaration is objected to by the Example 1	a) accepted or $b$ ) $a$ drawing(s) be held in abe on is required if the draw	vance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).			
Priority under	35 U.S.C. § 119					
12)⊠ Ackno a)⊠ All 1.⊠ 2.⊟ 3.⊟	wledgment is made of a claim for foreign b)☐ Some * c)☐ None of:	have been received. have been received in ity documents have be (PCT Rule 17.2(a)).	Application No en received in this National Stage			
Attachment(s)		_				
2) Notice of Dra 3) Information [	ferences Cited (PTO-892) aftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO/SB/08) Mail Date 10/20/05 & 3/17/04.	Paper N	w Summary (PTO-413) lo(s)/Mail Date Informal Patent Application			

#### DETAILED ACTION

### Election/Restrictions

Applicant's election without traverse of claims 1-12 in the reply filed on 7/23/07 is acknowledged.

Claims 13-16 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected method of making a positive electrode, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on July 23, 2007.

## Claim Objections

Claims 4 & 10 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Requiring magnesium to be electrochemically substituted for part of the lithium in the oxide does not further limit the lithium-manganese-oxide material of the independent claims.

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# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 & 7-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Peled et al. U.S. Pat. 5,591,543.

With respect to claim 1, Peled teaches a non-aqueous electrolyte secondary battery comprising: a negative electrode, positive electrode and a non-aqueous electrolyte, wherein the cathode contains an oxide containing magnesium substituted for part of lithium. The limitation with respect to the rock-salt structure is considered an inherent property of the prior art set forth, because the Peled teaches the identical compounds set forth by applicant. In accordance with MPEP 2112.01, " [p]roducts of identical chemical composition can not have mutually exclusive properties." A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are

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necessarily present. In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). In the instant case, the rock-salt structure is necessarily present because the lithium compounds are the same.

With respect to claims 2, 3, 8 & 9, the cathode compound is  $\text{Li}_x M_{x/2} \text{CoO}_2$  where x is between 0.4 to 1 and M is magnesium. See the Abstract and col. 2, lines 29-40. With respect to claims 4,6,7 & 10, the magnesium electrochemically substitutes part of the lithium in the oxide. See the Abstract and col. 2, lines 29-40.

Therefore, the instant claims are anticipated by Peled.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-6 & 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peled et al. U.S. Pat. 5,591,543 in view of Loch et al. U.S. Pat. 6,171,723.

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Peled teaches an electrochemical cell as described in the rejection recited hereinabove. Peled teaches dimethyl carbonate and ethylene carbonate electrolyte solvents (col. 3, lines 45-55).

Peled does not each a non-aqueous electrolyte including an imide salt.

However, Loch teaches that it is well known in the art to employ imide salts in ethylene carbonate and dimethyl carbonate electrolyte mixtures.

Peled and Loch are analogous art, because they are from the same field of endeavor namely, fabricating lithium secondary cells with carbonate electrolyte solvents. See Example 19.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the instant invention was made to employ the imide salt of Loch, in the electrolyte of Peled, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the same intended purpose. In re Leshin, 125 USPW 416.

### Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Monique Wills whose telephone number Application/Control Number: 10/801,655

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is (571) 272-1309. The Examiner can normally be reached on Monday-Friday

from 8:30am to 5:00 pm.

If attempts to reach Examiner by telephone are unsuccessful, the

Examiner's supervisor, Patrick Ryan, may be reached at 571-272-1292. The fax

phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from

the Patent Application Information Retrieval (PAIR) system. Status information

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free).

MW

9/28/07

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